

Cat. No. 14-1162

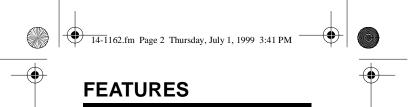
OWNER'S MANUAL

Please read before using this equipment.

Micro-35

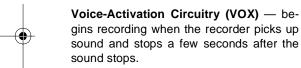
Auto-Reverse Microcassette Tape Recorder





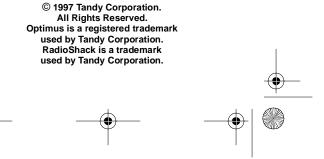
Your Optimus Micro-35 Auto-Reverse Microcassette Tape Recorder is ideal for quick note-taking. Its ultra-small size makes it easy to slip into a pocket or briefcase. You can use it at school, at business conferences, for dictation in the office, or anywhere on the go! You can turn on recording manually or set the recorder so sound activates recording.

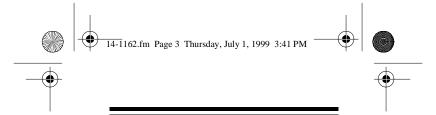
Your recorder includes these features:



Tape Counter with Reset Button — lets you mark the locations of certain sections of tape so you can easily return to them.

Built-In Microphone and Speaker — let you record and play back notes anywhere.





External Microphone Jack — lets you use an external microphone, so you can extend your recording range.

Earphone Jack — lets you use an optional earphone to listen to a tape in privacy.

Quick Record — lets you instantly change from playback to record.

Tape Speed Switch — lets you record at normal or slow speed. Slow speed gives you twice the normal recording time.

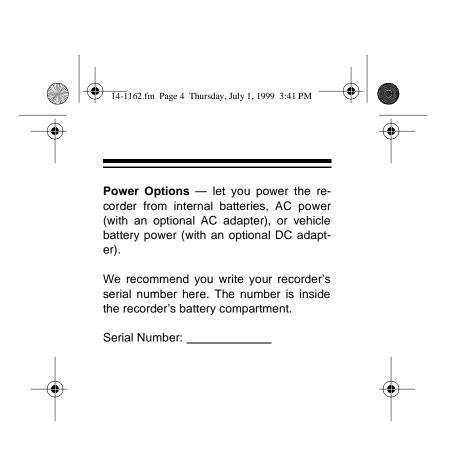
Fast Play — lets you play a tape back about 30% faster than normal speed, to save time when listening to a tape.

Auto Reverse — automatically changes tape sides when the front side of the tape reaches the end during recording and playback.

Auto Shut-Off — stops automatically when the tape reaches the end after playing both sides.



















CONTENTS



Using Batteries	. 7
Using AC Power	10
Using Vehicle Battery Power	12
Connecting an Earphone	14
Listening Safely	15
Traffic Safety	15
Connecting an External	
Microphone	16
Operation	17
Loading a Microcassette Tape	17
Recording	19
Playing a Tape	23
Using Fast-Forward/	
Rewind	24
Quick Record	25
Using the Tape Counter	26
Tape Tips	27
Storing Cassette Tapes	27

Preparation 6 Before You Begin..... 6 Connecting to Power 6







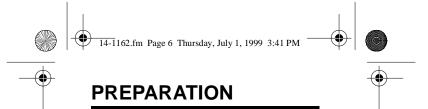






Preventing Accidental Erasure 27 Erasing a Cassette Tape 28

Cleaning the Tape-Handling



BEFORE YOU BEGIN

To protect the tape deck mechanism during shipment, a protective sleeve is inserted in the cassette compartment. Remove it before you use the Micro-35.

To protect the Micro-35's front panel during shipment, a piece of blue film covers the panel. Peel off this film before you use the Micro-35.

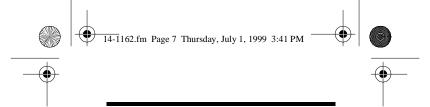


CONNECTING TO POWER

You can power your Micro-35 from any of the following:

- Internal battery power
- AC power (with an optional AC adapter)
- Your vehicle's battery (with an optional DC adapter)





Using Batteries

You can use two AA batteries (not supplied) to power your Micro-35. We recommend alkaline batteries, such as RadioShack Cat. No. 23-552.

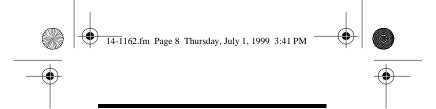
You can also use rechargeable nickel-cadmium batteries (Cat. No. 23-125) and a battery charger (Cat. No. 23-133), available at your local RadioShack store.



Cautions:

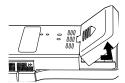
- Use only fresh batteries of the required size and type.
- Never leave dead or weak batteries in the Micro-35. Batteries can leak chemicals that can destroy electronic circuits.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Dispose of old batteries promptly; do not bury or burn them.



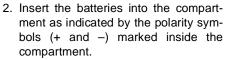


Follow these steps to install batteries.

1. Slide the battery compartment cover in the direction of the arrow until it stops, then lift up the cover.



Caution: The battery compartment cover is attached to the recorder. Do not try to remove it.





While pressing down the battery compartment cover against the recorder, slide it in the opposite direction of the arrow to close it.



3

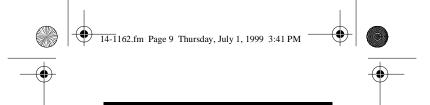






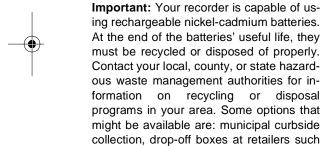






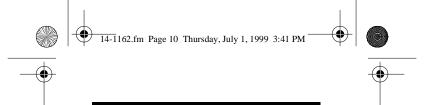
Notes:

- If the record/battery indicator to the right of the MIC jack does not light or lights dimly during manual recording, replace the batteries.
- If you do not plan to use the Micro-35 for several days, or if you plan to use only AC or vehicle battery power, remove the batteries.





as your local RadioShack store, recycling collection centers, and mailback programs.



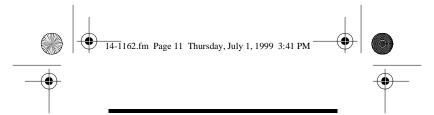
Using AC Power

To power the Micro-35 from an AC outlet, you need an AC adapter (not supplied), such as Cat. No. 273-1654, and an EIAJ 2.35 mm outer diameter/0.7 mm inner diameter adapter barrel plug (not supplied), such as Cat. No. 273-1646.

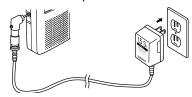
Cautions:

- You must use an AC adapter that supplies 3 volts DC power and delivers at least 200 milliamps. The center tip of the adapter barrel plug must be set to positive, and the plug must properly fit the Micro-35's DC3V jack. The recommended AC adapter and plug meet these specifications. Using an AC adapter and plug that do not meet these specifications could damage the Micro-35, the AC adapter, or the plug.
 - Always connect the AC adapter to the Micro-35 before you plug it into the AC outlet, and unplug the adapter from the AC outlet before you unplug it from the Micro-35.





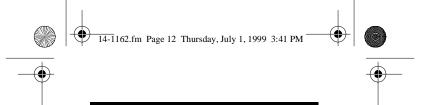
Follow these steps to power the Micro-35 from standard AC power.



- 1. Set the AC adapter's voltage switch to 3V.
- 2. Attach the barrel plug to the AC adapter's cord with the tip set to positive (+).
- Insert the barrel plug into the Micro-35's DC3V jack. This disconnects the internal batteries.
- 4. Plug the other end of the AC adapter into a standard AC outlet.







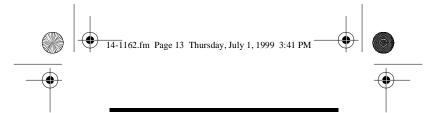
Using Vehicle Battery Power

To power the Micro-35 from your vehicle's battery, you need a DC adapter (not supplied), such as Cat. No. 273-1801.

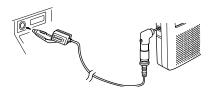
Cautions:

- You must use a DC adapter that supplies 3 volts DC power and delivers at least 200 milliamps. The center tip of its barrel plug must be set to positive, and the plug must properly fit the Micro-35's DC3V jack. The recommended DC adapter meets these specifications. Using a DC adapter that does not meet these specifications could damage the Micro-35 or the DC adapter.
- Always plug the DC adapter into the Micro-35 before you plug it into the cigarette-lighter socket, and unplug the adapter from the cigarette-lighter socket before you unplug it from the Micro-35.





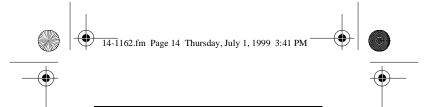
Follow these steps to power the Micro-35 from your vehicle's battery.



- 1. Set the DC adapter's voltage switch to 3V.
- 2. Attach the 2.35 mm outer diameter/0.7 mm inner diameter barrel plug with the tip set to positive (+).
- Insert the barrel plug into the Micro-35's DC3V jack. This disconnects the internal batteries.
- Plug the other end of the DC adapter into the vehicle's cigarette-lighter socket.







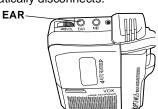
CONNECTING AN EARPHONE

You can use an optional earphone with a 3/32-inch plug to listen to a tape in privacy.

Notes:

- You can also use an earphone to listen to what the recorder picks up through the internal microphone or an external microphone.
- Your local RadioShack store carries a wide selection of earphones.

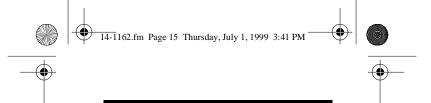
Insert the earphone's plug into the recorder's **EAR** jack. The built-in speaker automatically disconnects.











Listening Safely

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable listening level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

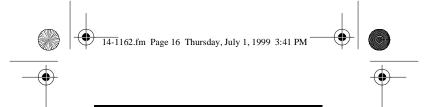


Traffic Safety

Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones let you hear outside sounds when listening at normal volume levels, they still can present a traffic hazard.





CONNECTING AN EXTERNAL MICROPHONE

You can use an optional microphone with a ³/₃₂-inch plug to extend your recording range. Your local RadioShack store carries a wide selection of microphones.

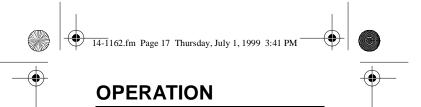
Insert the microphone's plug into the recorder's **MIC** jack. The built-in microphone automatically disconnects.











LOADING A MICROCASSETTE TAPE

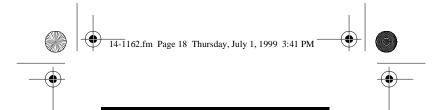
Note: We recommend MC-60 microcassette tapes for up to 2 hours of recording/playback time, or MC-90 microcassette tapes for up to 3 hours of recording/playback time.

Follow these steps to load a microcassette tape.

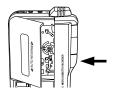
1. Use a pencil to turn the cassette's hub and remove any tape slack. Avoid touching the tape.



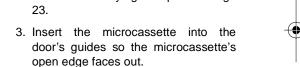




2. Press **STOP/EJECT** to open the cassette compartment door.



Note: When you press **STOP/EJECT**, sREV/tFWD is automatically set to tFWD. See "Playing a Tape" on Page 23.

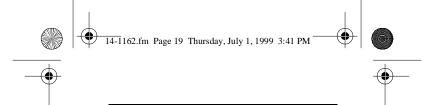




4. Close the cassette compartment door.





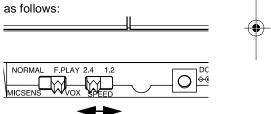


RECORDING

You can record manually or use voice-activated recording. When you use the VOX feature, recording begins when the recorder picks up sound and stops a few seconds after the sound stops.

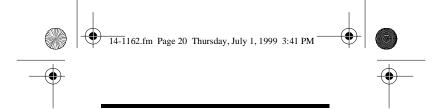
Follow these steps to record.

- 1. Load the microcassette tape.
- 2. Set **SPEED** on the side of the recorder as follows:



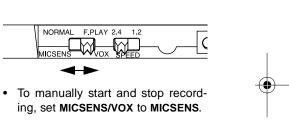
To double the tape's recording/play-back time, set SPEED to 1.2. This setting allows 120 minutes total recording/playback time on an MC-60 tape, or 180 minutes on an MC-90 tape.





• For better sound quality, set SPEED to 2.4. This setting allows 60 minutes total recording/playback time on an MC-60 tape, or 90 minutes on an MC-90 tape.

3. Set MICSENS/VOX as follows:

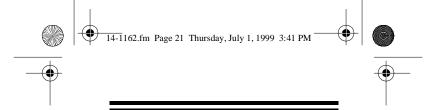




- To use voice-activated recording, set MICSENS/VOX to VOX.

Note: The voice-activated feature saves power and tape if there are long or frequent pauses in the material you are recording.





 Press both REC and PLAY to begin recording. Both buttons lock down, and the record/battery indicator to the right of the MIC jack lights.

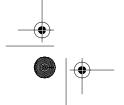


If MICSENS/VOX is set to MICSENS, recording begins immediately. If MICSENS/VOX is set to VOX, recording begins and the record/battery indicator lights steadily only when the recorder picks up sound.



Caution:

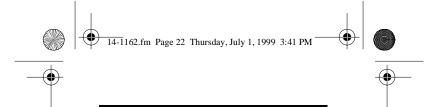
- To protect the recorder, press REC only when a microcassette tape is loaded.
- Do not force down REC. If you cannot easily press REC, check the microcassette tape's erase-protection tabs (see "Preventing Accidental Erasure" on Page 27). You cannot record on a microcassette tape if either of the erase-protection tabs is broken off.









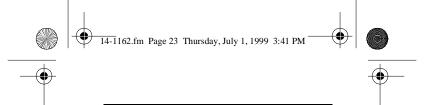


Note: To pause recording, slide **PAUSE/OFF** to **PAUSE**. To resume recording, slide **PAUSE/OFF** to **OFF**.

- If you set MICSENS/VOX to VOX, adjust VOL to set the sound level at which recording begins. When you set VOL to higher settings, softer sounds start VOX recording. When you set VOL to lower settings, louder sounds start VOX recording.
- 6. Press **STOP/EJECT** to stop the tape.

Note: The auto-reverse feature lets the Micro-35 automatically record both sides of a tape. When one side of the tape records to the end, the tape's direction automatically reverses, and the tape's other side records. At the end of the other side, the Micro-35 automatically stops.

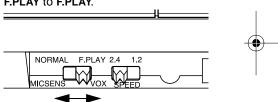




PLAYING A TAPE

- 1. Load the microcassette tape.
- 2. Set **SPEED** to the speed used when the tape was recorded.
- 3. To listen to the tape at normal speed, set NORMAL/F.PLAY to NORMAL.

To listen to the tape at about 30% faster than normal, set **NORMAL/ F.PLAY** to **F.PLAY**.

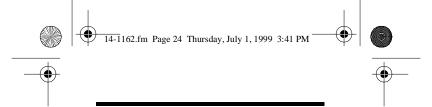


4. Press PLAY.



5. Adjust **VOL** to a comfortable listening level.





- To reverse the tape's direction so you can play the other side, switch sREV/ tFWD to the other position.
- 7. Press STOP/EJECT to stop playback.

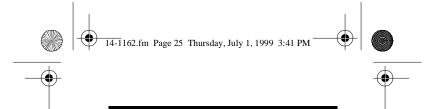
Note: The auto-reverse feature lets the Micro-35 automatically play both sides of a tape. When one side of the tape plays to the end, the tape's direction automatically reverses, and the tape's other side plays. At the end of the other side, the Micro-35 automatically stops.



Using Fast-Forward/Rewind







If you slide $\lhd\lhd/r$ when the tape is stopped, the button locks. The tape fast-forwards or rewinds until you slide $\lhd\lhd/r$ r to the center position.

Note: When the tape reaches the end during fast-forward and rewind, you must slide ⊲⊲/⊳⊳ to the center position to stop the recorder.

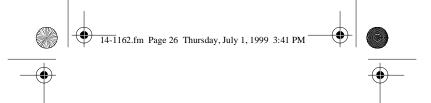


QUICK RECORD

During playback, you can press **REC** to go directly to recording without pressing **STOP/ EJECT** first.

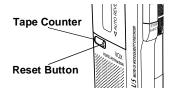






USING THE TAPE COUNTER

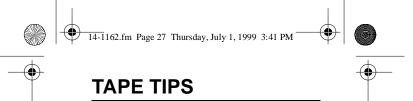
You can use the tape counter to mark locations of specific sections of tape so you can easily return to them.





Press the reset button next to the tape counter to set the counter to 000 at the beginning of a tape. As the tape plays or records, note the counter reading at the position(s) where you want to return.



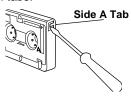


STORING CASSETTE TAPES

Do not expose cassette tapes to high temperatures, high humidity, dust or dirt, or motors, transformers, or other sources with strong magnetic fields.

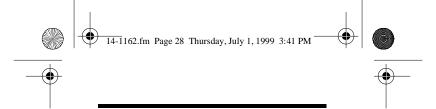
PREVENTING ACCIDENTAL ERASURE

Most microcassette tapes have an eraseprotection tab for each side of the tape. To protect your recordings from being accidentally erased or recorded over, use a screwdriver to carefully break off the eraseprotection tabs.



Note: If you break off either of the erase-protection tabs, you cannot record both sides of the tape due to the auto reverse mechanism.





If you later decide to erase or record over the tape, place a piece of strong tape over the holes.

Caution: Removing the erase-protection tabs does not prevent a tape from being erased by a bulk tape eraser.

ERASING A CASSETTE TAPE

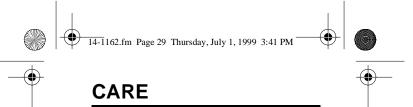


If you no longer want a recording, you can record over it or erase it.

To record over a cassette tape, be sure the erase-protection tabs are in place. Then simply record as usual. The recorder records over the previous recording.

You might prefer to use a bulk tape eraser, such as Cat. No. 44-232, which erases both sides of a tape in just a few seconds.

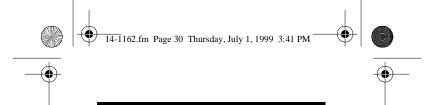




Your Optimus Micro-35 Auto-Reverse Microcassette Tape Recorder is an example of superior design and craftsmanship. The following suggestions will help you care for your recorder so you can enjoy it for years.

- Keep the recorder dry. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode the electronic circuits.
- Handle the recorder gently and carefully. Dropping it can damage circuit boards and cases and can cause the recorder to work improperly.
- Use and store the recorder only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Keep the recorder away from dust and dirt, which can cause premature wear of parts.
- Wipe the recorder with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it.





 Use only fresh batteries of the required size and type. Always remove old or weak batteries. They can leak chemicals that can destroy electronic circuits.

Modifying or tampering with the recorder's internal components can cause a malfunction and might invalidate the recorder's warranty. If your recorder is not operating as it should, take it to your local RadioShack store for assistance.

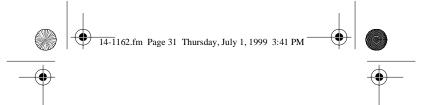


CLEANING THE TAPE-HANDLING PARTS

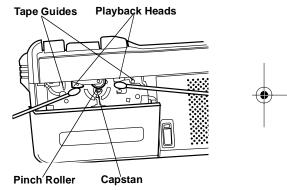
Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the recorder. Use the following cleaning procedure after every 20 hours of recorder operation.

 Press STOP/EJECT, remove the batteries, and disconnect any other power source.





- 2. Press **PLAY** to expose the tape-handling parts.
- Use a cotton swab dipped in tape head cleaning solution or denatured alcohol to gently clean the playback head, pinch rollers, capstan and tape guides.

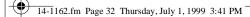


 Press STOP/EJECT to release the tape-handling parts. Then reconnect power.

Note: For easier cleaning, you can use a microcassette cleaner kit, which includes a special cleaning cassette. Your local RadioShack store carries a full line of cassette deck cleaning supplies.











SPECIFICATIONS



Tape Type	Microcassette
Tracks2 Track	s, 1 Channel Monaural
Drive System	Capstan Drive
Tape Speed2.4	cm/sec. (15/16 ips) and 1.2 cm/sec. (15/32 ips)

Recording Time (with MC-60 Microcassette):

2.4 cm/sec......30 min. per side 1.2 cm/sec.....60 min. per side

Practical Max. Output150 mW

Frequency Response400-4,000 Hz at 2.4 cm/sec.

Fast Play:

2.4 cm/sec....+25% 1.2 cm/sec....+30%

Microphone Sensitivity Continuous Adjustment Using VOL in Record Mode

Power Sources:

Internal Batteries 3 Volts DC, Two AA Batteries AC Power......120V with AC Adapter (Cat. No. 273-1654)











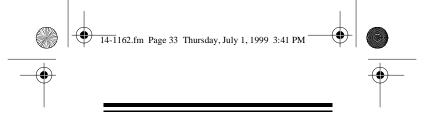




32







Vehicle Battery12V with DC Adapter (Cat. No. 273-1801)

Dimensions (HWD) $4^{15}/_{16} \neq 2^{1}/_{2} \neq 1$ in. (125 \div 64 \div 26 mm)

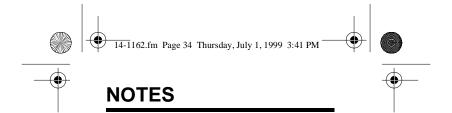
Weight (with batteries)4.6 oz. (130 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.



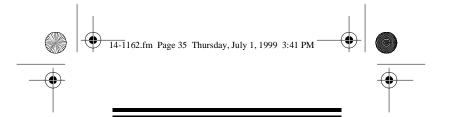






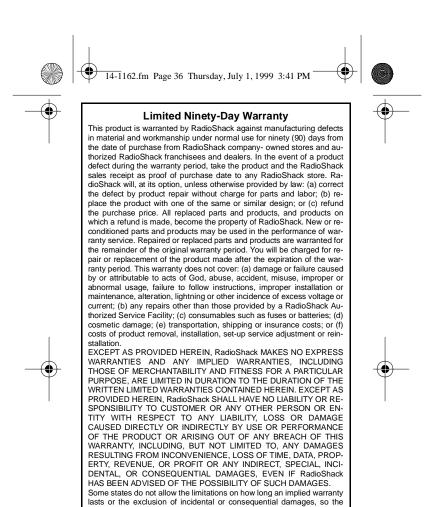












you specific legal rights, and you may also have other rights which vary RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

above limitations or exclusions may not apply to you. This warranty gives

We Service What We Sell

RadioShack A Division of Tandy Corporation Fort Worth, Texas 76102

E2-2360-01 Printed in Hong Kong





6A7

from state to state.





1/97



